



Submits proposal to



Response Proposal for RFP No. ISD1830 (Enterprise GIS Initiations and Planning)

27 February, 2015

PRESENTED BY

Superior Information Technologies, LLC.
26100 American Drive, Suite 602
Southfield, MI 48034 USA
Attn: Anurag Kulshrestha, President & CEO
Phone: (248) 353-4090 Ext. 107;
Mobile: (248) 425-8654
Fax: (248) 353-4093
Email: anurag@superiorinfotech.com

27 February, 2015

Jon Walton
San Mateo County CIO, Director Information Services Department
Redwood City, CA 94065

RE: Response Proposal for RFP No. ISD1830 (Enterprise GIS Initiations and Planning)

Dear Jon,

Superior Information Technologies, LLC. (Superior IT) would like to thank you for the opportunity to submit our proposal to provide Enterprise GIS Initiations and Planning Services for County of San Mateo. Superior IT is expressing interest through this proposal and is very appreciative of this opportunity to prospectively assist and provide our professional GIS services to conduct a comprehensive Geographic Information Systems (GIS) needs assessment, develop a conceptual system design, and prepare an implementation plan for the County's enterprise GIS..

Superior IT Team brings geospatial and information technology expertise, outstanding qualifications and vast technical experience with leading-edge technologies, providing the best geospatial solution design, development and sustainment services. Our portfolio, encompassing both diverse and complex project work, enables us to be uniquely qualified to successfully provide needed GIS Services to San Mateo County.

Enclosed is our proposal. Please, don't hesitate to contact us with any questions or comments.

Sincerely,



Anurag Kulshrestha
President & CEO
Superior Information Technologies, LLC.
26100 American Drive, Suite 602
Southfield, Michigan 48034
Phone: 248.353.4090 Ext. 107
Mobile: 248.425.8654
Fax: 248.353.4093
Email: anurag@superiorinfotech.com

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Section 1:

Firm Qualifications and Experience

Company Overview

Company Name	Superior Information Technologies, LLC.
Company Incorporation Date	13 August 2009
Company Address	26100 American Drive, Suite 602, Southfield, Michigan 48034
Point of Contact (POC) Name	Mr. Anurag Kulshrestha
POC Phone Number	Work: 248-353-4090 Ext 107, Mobile: 248-425-8654
POC Email Address	anurag@superiorinfotech.com
DUNS Number	968886973
NAICS Codes	541370, 541511, 541512, 541513, 518210, 541519
Number of Employees	12

Superior Information Technologies, LLC. (Superior IT) is an Equal Opportunity Employer and does not discriminate on the basis of age, color, creed, disability, gender, identity, national origin, pregnancy, race, religion, sex, sexual orientation or veteran's status. Superior IT is always seeking a strong working relationship with its clients to maintain confidentiality towards the development of client's unique enterprise requirements of database, software systems and technology infrastructure.

All of our work will be performed in United States and no work will be sub-contracted or outsourced to any third-party. We will perform our project work from Southfield, Michigan office and travel to client-site as needed. We will communicate with client through emails, tele-conferences, web-based screen sharing (WebEx) on regular basis.

Superior IT provides a customized approach to its clients' unique software, database, hosting and networking requirements. Superior IT offers a wide range of integrated solutions including:

- Software Applications for Mobile, Web and Desktop Platforms
- Geographic Information Systems (GIS)
- Enterprise Applications Integration (EAI)
- Work Order & Asset Management (WAM) Solutions
- Route and Network Analytics
- Vehicle Tracking and Fleet Management
- Database Design and Development
- Data Conversion and Interoperability
- Professional Technical Consulting



Qualifications and Capabilities

Superior Information Technologies, LLC. (Superior IT) provides custom Geographic Information Systems (GIS) and Information Technology (IT) solutions and services encompassing rich internet, mobile and desktop applications. Our GIS professionals blend their expertise and experience with the leading geospatial technologies to architect and build practical solutions.

Our geospatial solutions and services utilize the following tools and technologies:

- Esri ArcGIS 10.3 and earlier versions for Server, Mobile, Desktop, and ArcGIS Online
- Web Development using Esri ArcGIS REST APIs for JavaScript, Flex and Silverlight
- ArcGIS Engine, ArcSDE, ArcGIS Runtime SDKs, Portal for ArcGIS, GeoEvent Processor
- Location Analytics, ArcGIS Solutions, ArcGIS Content
- ArcGIS Data Interoperability, ArcGIS Data Models, ArcGIS 3D Analyst
- Business Workflow Design, Geodatabase Design and Development, Data Conversion
- MapServer, OpenStreetMap, OpenLayers, PostgreSQL, AutoDesk AutoCAD
- HTML 5, CSS 3, JavaScript, JQuery, DOJO, Sencha Touch, Sencha ExtJS, Bootstrap
- Oracle Utilities WAM, IBM Maximo, CityWorks, ArcFM
- Trimble devices and GPS Pathfinder Office Software
- FME Server, GeoCortex Essentials
- Data Digitization, COGO workflows, LizardTech GeoExpress Integration
- Databases: Microsoft SQL Server 2012 R2, Microsoft Access 2013 and Oracle 11i
- Programming Languages: C#, VB.NET, Java, JavaScript, MXML, XAML, Python, WCF, WPF
- Operating Systems: Windows Servers, SUN Servers (Solaris), Linux servers (Redhat)

Superior IT also assists its customers in the successful configuration, implementation and hosting of GIS solutions, which can be on premise or cloud based infrastructure. We work closely with our clients to understand their business requirements and consult the best possible option as per the system, infrastructure and hosting needs.

Superior IT professionals have provided their GIS professional services on numerous projects for government and commercial clients. We keep business ethics and professional conduct paramount to our core and services. We research and practice the innovative ideas which add value to our services and deliverables. We are passionate to provide excellence through continuous improvement and education.

Superior IT Team has all needed professional resources in its team who can provide the required GIS and IT services. Our resources include Project Manager, Business Analyst, Technical Architect, Database Architect, GIS SMEs, Software Developers, GIS Developers, System Testers, Graphics Designer, Technical Writer, System Administrator, etc. Superior IT as a vendor will take the responsibility to make sure that each assigned resource is qualified.

List of Key Personnel

Anurag Kulshrestha, MS, PMP

Senior Project Manager, GIS/IT SME

Position
President & CEO

Years of Experience
18

Education
Masters of Science
Computer Science 1997
G.B. Pant University, India

Certifications
Project Management Professional
Microsoft Certified Professional
Brainbench Certified Professional
Management Training from UoM

Methodologies
RUP, UML, CMMI, EDI, EAI, JAD, RAD,
AGILE, Waterfall, OOP, OOA, B2B, B2C

Geographic Information System (GIS)
ESRI ArcGIS for Server / Desktop /
Mobile / SharePoint, ArcGIS Engine,
REST APIs (JavaScript/Flex/Silverlight),
ArcGIS Online, ArcGIS RunTime, ArcPy
ArcSDE, ArcObjects, ArcExtensions,
Data Interoperability, Models

Software Tools
MS Project/Visio/Office, Visual Source
Safe, CAD, CVS, Adobe Photoshop CS,
ERWIN, ROBO Help, MS SharePoint

Programming
Visual Studio.NET 2012, MVC,
VB.NET/C#, ASP.NET, SSIS, SSRS, WPF,
ActionScript, HTML/XML, CSS, Python
Script, VB Script, JavaScript, JQuery,
Telerik ASP.NET AJAX UI Controls

RDBMS
MS SQL Server 20012 R2, MS ACCESS
2012, Oracle 11g, Matisse

Anurag Kulshrestha is visionary, decisive and solutions-driven technology professional with more than 18 years of extensive experience in program management and software development. He has outstanding talents in needs assessment, system analysis, architecture design, application development management, data integration, system implementation, security design, technology selection, scope management, organization budget planning, revenue projections, schedule development and control, team building, quality assurance, risk mitigation, customer facing. He has unique ability to operational strategic visions and shape technology performance and responsiveness to business needs, with prominent contributions that enhance customer satisfaction. Anurag has effective result-oriented management leadership skills in building a global cross-functional team with a proven success record in problem solving using an energetic management style.

Verticals

Government and Private Entities, Geographic Information Systems (GIS), Work and Asset Management (WAM), Automatic Vehicle Location (AVL), Supply Chain Route Logistics, Radio Frequency Identification (RFID), Water & Sewerage Infrastructure, Gas Utilities, Parcels, Roads and Landmarks, Mobile and Web Applications, Casino Games & Hospitality Applications, Medical Practice Management for Healthcare Industry, Quality of Service (QoS) Network Switches, High Power Computing & Storage, Networking

Responsibilities

Orchestrate company-wide operations for multiple technology projects execution and business development strategies. Devise tailored directions for successful project cycles and bridge technology and contents to enhance productivity, business value and customer satisfaction. Program Mentorship and Management for multiple technology projects for clients. Assessment and core participation in technical and business analysis. Translate customer needs into clear framework. Review technical architecture thoroughly and streamline processes to accomplish greater effectiveness while curtailing expenses. Monitor projects with respect to project schedule milestones, cost, resource deployment, time over-runs, quality compliance and manpower. Be pivotal in managing IT accounts for government/private clients. Study and preparation of presentations and case-studies involving CMS, GIS, WAM, AVL, IT, RFID, and Cloud technologies. Performed proactive analysis and troubleshooting to identify potential hardware and software problems. Supervise the QA/QC procedures, documentation and training

Prashant Rai

Senior Business Analyst

Position

Sr. Business Analyst

Years of Experience

12

Education

Diploma in End User Computing,
Kurukshtera University

Bachelor of Arts, Delhi University
2001

Certifications

Certificate in Computer Applications, Expert Computers
PMP Fast Track Course
Six Sigma Certification Green Belt

Methodologies

RUP, JAD, SDP, Waterfall,
Iterative, Agile, Zackman
Framework

Tools

Rational Requisite Pro , MIS
Visio, MS PowerPoint, MS
Project, MS FrontPage,
WIKIS, Net Meeting, WBS

Technologies

SQL Server, Oracle, PL/SQL, DB2,
COGNOS, Business Objects, Visual
Basic, MS Access, IM, Data
Warehousing, Java

Prashant Rai has 12 years of combined experience as Business Analyst and Information Analyst. He has expertise in defining scope of projects based on after gathering business requirements including documentation of constraints, assumptions, business impacts, project risks & scope exclusions. He has extensive experience in creation of Use Case Scenarios, business process modeling using UML like Use Case Diagrams, Data Flow Diagrams, Activity diagrams, and Sequence diagrams using MS Visio and Rational Rose, defining business processes and strategies, work and process flows modeling using RUP Framework and Data conversion Projects. He has organized many Joint Application developments (JAD), Joint Application Requirements (JAR) and Joint Requirement Planning sessions (JRP), Interviews, workshops and requirement Elicitation sessions with end-user, client, stake holders, development group & Subject Matter Experts (SMEs).

Prashant brings complete PLM cycle experience including Project initiation, planning, execution, control, tracking, closing and reporting. He has experience with Project Decomposition based on critical timing, resources and budget. He has Expertise in identifying, developing and documenting Business and Functional Requirements Specifications, User Requirements Specification, System Requirements Specifications, Services-Oriented Architecture. Prashant is expert in conducting complete System Analysis, Requirements Traceability Matrix, Service-oriented Architecture, Feasibility Matrix, Problems Statement/Opportunities Objectives Constraints Matrix, Entity Definition Matrix, and Candidate Matrix.

Prashant maintains effective working relationships with client team to understand and support requirements, develop strategic plans to implement technology solutions, and effectively manage client expectations. He has expertise in structured methodologies such as RUP, Waterfall, SDLC, RAD, UML, and AGILE. Proficiency in Project Management and developing Work Breakdown Structures (WBS), project scheduling & milestone tracking, and PERT charts. He has extensive expertise in gathering Quantitative and Qualitative Analysis and Functional Requirements. He brings excellent organizational, professional and customer service skills, attention to detail and follow-through, a team player with ability to work independently, ability to work flexible work hours, and willingness to take up challenging duties as assigned.

Responsibilities

Gather Business Requirements, Interacted with end Users, Designers, Developers, Project Manager and SMEs to get a better understanding of the Business Processes. Analyze and optimize the process, prepare Business Requirement Document and convert them to functional and technical specification. Create Use Cases Diagrams, Activity Diagrams/State Chart Diagrams, Sequence Diagrams, Collaboration Diagrams and Deployment Diagrams, Data Flow Diagrams (DFDs), ER Diagrams and Web Page Mock-ups, defining the Business Process Model and Data Process Model.

Bernard Ntiamoah

GIS Architect / Sr. GIS Developer

Position
GIS Architect/Sr. GIS Developer

Years of Experience
10

Education
Masters of Science, Geography,
Ball State University, Muncie, IN, 2009

Masters of Science, Environmental
Engineering and Sustainable
Infrastructure,
The Royal Institute of Technology
(KTH), Stockholm, Sweden, 2007

Certifications
Esri Certified Developer

Tools & Technologies
Esri ArcGIS products
Server, Desktop, and Mobile

GIS web application development
using JavaScript, Silverlight and Flex
APIs, JSON

ArcGIS Desktop Add-Ins
using WPF, C# and ArcObjects

Visual Studio, WPF, WCF, C#,
ActionScript, VB.NET, Python, Java,
Objective-C, SOAP and REST

Microsoft SQL, Oracle, PostgreSQL,
MySQL, ERDAS IMAGINE, Idrisi

HTML 5, CSS 3, AJAX, DOJO, JQuery

Google map API, MapServer,
GeoServer, MS Expression Blend,
Adobe Illustrator

Bernard Ntiamoah is an expert as GIS Architect / Sr. GIS Developer, and has extensive experience in business analysis, software development, leadership and management. He has a proven track record of coordinating and leading technical projects and delivering on schedule with effectively liaison experience between multiple organizations and communicate effectively at technical and executive levels. He has architected many web-based and client/server software solutions. He has Effective oral and written communication ability, critical thinking and problem analysis skills.

Bernard has experience as an enterprise architect, solution architect defining, managing and implementing enterprise architectures and solutions. He possess the ability to direct cross-functional teams to analyze systems and process & implement applications. He is recognized for leadership in planning, solutions, estimation, scheduling and executing full life cycle implementation of IT and GIS projects.

Responsibilities

Architect and manager complex IT/GIS solutions in a team environment to satisfy client business challenges. Utilize extensive development, implementation, and consulting skills to deliver state of the art systems, while providing technical and project management leadership. Assist with development of focused practice areas. Facilitate research efforts in new or upgraded applications, services and technology including Service Oriented Architectures, Infrastructure products, and systems management solutions.

Research existing technical or business systems to understand and leverage unrealized capabilities. Design and review conceptual solutions for projects, including total cost of ownership, time-lines and integrated technology designs. Research marketplace changes to technology integrated to the future demands and direction of the business. Facilitate the definition of standards, working with a variety of technology groups within a client's organization. Research best practices within the industry and information technology to continuously improve quality, costs and delivery time-lines. Audit standards and technology solutions through the design, construction and implementation phases of projects. Assist in the creation of a central component architecture library to ensure re-use, quality and speed to market. Perform architectural review and research for internal and external solutions.

Facilitate the definition of standards for delivery and process. Publish and audit the use of implemented standards. Work as an integral part of the delivery model and enable the strategic direction of client's technology services. Enterprise GIS Solutions Design, Implementation, Configuration, and Applications Development.

Gary Siorek

GIS Specialist

Position	GIS Specialist
Years of Experience	25
Certification	Geographic Information Systems Professional (GISP) by GISCI
Education	<p>Certificate, Small Business Management, Washtenaw College, Ann Arbor, Michigan 1998</p> <p>Master's classes in Urban Planning, Eastern Michigan University, Ypsilanti, Michigan (non-degree) 1995</p> <p>Bachelor's Degree of Science in Ecosystems, Natural Resources Planning and Geography, Eastern Michigan University, Ypsilanti, Michigan 1983</p> <p>Associate's Degree of Science, Schoolcraft Community College, Livonia, Michigan 1977</p>
Formal Trainings	<p>Building Web Applications Using the ArcGIS API for Flex (2.x) - 2011</p> <p>ARCHIBUS 19.3 System Administration – 2010</p> <p>Creating and Editing Geodatabase Features with ArcGIS Desktop – 2010</p> <p>Esri ArcGIS 3D Analyst – 2010</p> <p>Data Management in the Multiuser Geodatabase – 2009</p> <p>Using Lidar Data in ArcGIS – 2009</p> <p>Intro to HAZUS MH Comprehensive Database Management in ArcGIS</p> <p>Quick Terrain (QT) Modeler for Lidar Point Cloud Data Use and Interpretation – 2009</p> <p>ARCHIBUS Facilities Management 18.2 Fundamentals - 2008</p>

Gary Siorek brings 25 years in GIS field. Skilled in ArcGIS Server and Desktop (ArcInfo) 10.2.2 and earlier versions. Prior member of Esri Developer Network (EDN) from 2008 – 2012. Indoor mapping and mobile solutions like Nokia, Penbay, and ArcPad. ARCHIBUS floor plan integration. AutoCAD Map, 3D Building Information Modeling (Revit BIM) and Global Positioning Systems (GPS), Intergraph GeoMedia, Bentley MicroStation, MapInfo. Public safety mapping with Esri-based Omega Group Fireview and Crimeview, ArcBridge Firesolv and Crimesolv, Esri. Network Analyst and Spatial Analyst. Familiar/worked with HTML, CSS, XML, JavaScript, SQL, Esri ModelBuilder. Familiar/worked with SQL Server 2003 and 2008, Oracle 10 and 11, and Sybase 9 and 12.

Recent Work Portfolio

- Support XML/JavaScript/SQL customization of ARCHIBUS FM software to match legacy web interface. Proposed GIS work removed from job description.
- Business partner and government client technical support; ArcGIS 10.0/10.1 developer (Esri EDN Licensee); ARCHIBUS Facilities Management (FM) software instructor; needs assessment and implementation planner. ARCHIBUS facilities management software technology deployment for building and land/real property management onsite at clients.
- ArcGIS software research and development of Flex web tools and prototype desktop integrations with Esri ArcGIS, Google Earth and Intergraph GeoMedia. Instruction, demonstration, and Geospatial support for Army RPLANS and Mapper for facilities management, and other government projects that involved integration of ARCHIBUS, Esri ArcGIS 9.3, AutoCAD, AutoCAD Map, and Revit BIM Architecture, Oracle, and MS SQL Server. Esri EDN ArcGIS Server and Map developer. Developed and delivered multisession. GIS training course for VISTA staff. Won award for Fire Department / Public Safety station coverage maps at BIMStorm Alexandria. Port security GIS studies support for DC client. ArcGIS technical input on committee designing SDSFIE (Spatial Data Standard for Facilities, Infrastructure and Environment) standard 3.0 update project. GIS content and documentation writer.
- GPS support, Esri ArcPad 7, Application Builder, and ArcGIS 9.2 support and training, GIS/GPS data preparation and analysis, application and forms development. Overseas support for US Centcom and US Army Corps of Engineers handheld standoff GPS units deployed in disaster and war zones. Secure Border Initiative (SBI) proposal support. Cartography, GIS data and geodatabase development, and analysis using ArcView 9.1. Training material development using Esri ArcPublisher and ArcReader.
- Responsible for managing data development projects for Virginia state, county, and local governments, utilities, and private businesses. Coordinate with technical and support staff for aerial photography, GIS, planimetric, and remotely sensed data production, quality control, client issues, programs and GIS analysis.

Shivani Kulshrestha

Senior Software Developer

Position	Senior Software Developer
Years of Experience	12
Education	
Computer Engineering, National Institute of Information Technology, Kota, INDIA	1998
Bachelors in Science, Maharshi Dayanand Saraswati University, Ajmer, INDIA	1996
Certifications	
Microsoft Certified Professional Brainbench Certified Professional	
Architecture	
MVC, ORM, WCF, WPF	
Programming	
Microsoft Visual Studio 2013 and earlier versions, C#, VB.NET, ASP.NET, Telerik RadControls, Action Script MXML, XAML, LINQ, Web/Windows Services, AJAX, JQuery, JavaScript 1.8, CSS 3, HTML5, XML, PL SQL, Flash	
ETL & Reporting	
SSIS, SSRS, SSAS, SAP Crystal Reports	
Databases	
Microsoft SQL Server 2012 R2 and earlier versions, MS Access 2012	
Tools	
Microsoft TFS 2012, Microsoft VSS, PhoneGap, Knockout, MiniProfiler, Amplifier, AutoMapper, Bootstrapper, Fiddler, Adobe Acrobat Professional XI, Adobe Photoshop CS4, AlivePDF	

Shivani Kulshrestha is an innovative, self-motivated and solutions-driven IT Professional who brings 12 years of extensive experience in system analysis, design, development, testing, documentation and implementation of various systems and software applications. She proactively solves technical problems with strong analytical thinking and gets driven by leading technologies to be successful in all endeavors.

Work Portfolio

Currently working on multiple enterprise-wide software systems applications utilizing leading technologies, such as Microsoft Visual Studio.NET 2012, Entity Framework (ORM), MVC, C#, SQL Server 2012 R2, WCF, RESTful Web Services, Windows Services, TFS 2012, Crystal Reports, SSIS, SSRS, SSAS, JQuery, JavaScript 1.8, CSS 3, HTML 5, PhoneGap, Bugzilla Tracking System, etc.

Responsibilities include use-case analysis, application and database design, technical architecture design, software programming, database programming, unit/system testing and deployment of the system applications on staging and production servers. Provide documentation with feature and functional specifications of the applications. Actively participate in weekly iterative practice of AGILE methodology to manage system applications development. Interview technical candidates and assess their eligibility for various internal positions. Communicate frequently with clients to understand their requirements and arrange walk-through workshops.

Developed five different enterprise systems software applications using, Microsoft Visual Studio .NET 2010/2008, VB.NET, ASP.NET, ADO.NET, Microsoft Enterprise SQL Server 2008/2005, Windows/Web Services, Crystal Reports XI, Microsoft SharePoint, Telerik RadControls, JQuery, Adobe Flash Builder 4.0, and Adobe Photoshop CS3.

Development of key software systems applications included Enterprise Billing System (EBS) for organization-wide assets (such as, Cellular Wireless Broadband Services, Vehicles, IT Hardware/Software Assets, etc.); Expense Report System (ERS) which allows the company employees to submit their expenses for reimbursement; Resume Submission and Tracking System (RSTS) for enterprise-wide recruitment purposes; Walbridge Ticket Tracking System (WATTS) for company employees to manage and maintain lists of issues to create, update, and resolve reported customer issues; and Surveys Collection Management System (SCMS) for Human Resource department which can be published to all or selected groups in the enterprise.

Developed web applications using Microsoft Visual Studio .NET 2005, VB.NET, ASP.NET, MS SQL Server 2005, Web Services, XML, PDF Generator API, API for Credit Card Payments.

Yinglun Liang

GIS Application Developer

Position
GIS Application Developer

Years of Experience
3

Education
Masters of Science, Geography
Eastern Michigan University, 2012

Bachelors of Science, GIS
Wuhan University, 2010.

Tools & Technologies
.NET Framework, C#, WCF, WPF,
Silverlight, ASP.NET, JavaScript,
HTML5, CSS3, XML, AJAX, MS SQL
Server, Oracle, Postgres, MySQL

Esri ArcGIS Server 10, 10.1, 10.2,
ArcGIS Desktop, ArcSDE, Add-Ins,
Extensions, COGO, ArcGIS REST APIs
(JavaScript and Flex), DOJO 1.8,
ArcObjects, Python Script

SOAP and REST web services,
Information Builders' WebFocus and
Esri's GeoEvent Server

Open source Web Mapping
(ERDAS, QGIS, MapServer,
PostgreSQL, PostGIS)

Adobe Photoshop, Flash,
Dreamweaver

Yinglun Liang has over three years of experience in design and development of custom technology software applications, including geographic information systems. Yinglun has experience in the customization of Microsoft and Esri technologies and toolset and the integration of enterprise IT systems. He is excellent team player with expertise in various industry standard technologies. He has successfully contributed to all phases of IT projects, gathering and documenting requirements, designing applications and databases and developing and testing custom applications. He has always delivered applications to client requirements within the specified time schedule.

Work Portfolio

Currently working on US Army Corps of Engineers – Obama District project to build Navigation Structure Database and according solution.

Worked on State of Connecticut's eFTD Web Application Project for Department of Energy and Environment Protection. This web-based GIS application involves the development for Inland Fishing Tournament/Derby Permit (IFD), Marine Fish Tournament Registration (MFD), Marine Event Permit (MEP), Special Regulations on Association Controlled Waters (SPREG), Private Waters Registration (PWR), Importation and Liberation Permit for Fish and/or Eggs (IMPLIB). Developing the application using ArcGIS REST API for JavaScript, ArcGIS Server 10.2, ArcSDE, DOJO 1.8, Microsoft SQL Server 2012, HTML 5, CSS 3, JavaScript 1.8, etc.

Provided professional GIS services for General Motors project to configure and setup geospatial infrastructure, including Esri ArcGIS Server, Oracle 11g database, Red Hat Linux Server, Information Builders WebFocus. Developed web applications utilizing ArcGIS Server, ArcSDE Oracle database.

Developed ArcGIS Desktop tools for smart callouts, utilizing ArcGIS 10 and 10.1, ArcObjects, C#, WPF, SQL CE, etc. This project develops a smart Add-In application where output data can be represented in tables which will behave as callouts and their cells and data can be color coded depending upon client's criteria. This project required the complete ground-up rewrite of Esri's Callout classes and interfaces. Its details can be found online at <http://www.superiorinfotech.com/products.html>

Developed a flex based web mapping application using ArcGIS viewer for a utility company in order to create, manage and symbolize Work Orders and Service requests. This application integrates GIS data with Work Asset Management software (Oracle WAM).

Developed an interactive website for Crime Incident Mapping for Eastern Michigan University. Participated in ICCARS project in IGRE. Participated in Rapids project in IGRE. Documentation for several projects and requirements meeting with IGRE's software users.

Pratyush Kolli

GIS Programmer Analyst

Position
GIS Programmer Analyst

Years of Experience
2

Education
Bachelor of Science,
Computer Science
University of Illinois
2013

Tools & Technologies
HTML 5, CSS, JavaScript, Python, C#,
Bootstrap, PHP, and PostgreSQL

Django framework and object
relational mapper (ORM)

Esri ArcGIS Server 10.2.2, ArcGIS
Desktop, Add-Ins, Extensions, COGO,
ArcGIS REST APIs (JavaScript), DOJO
ArcObjects, Python Script

Microsoft Office 365 including Word,
Excel, PowerPoint and Access, Adobe
Photoshop

Open source Web Mapping
(QGIS, MapServer, PostGIS)

Pratyush Kolli is an energetic and dedicated GIS professional who can demonstrated technical skills in his one years of professional experience. He is eager to learn new technologies and tools and takes his own time to get himself educated and trained. He has excellent reasoning and analyzing skills. He blends his technical skills with geospatial technologies to build the custom solutions for clients.

Work Portfolio

Currently working on US Army Corps of Engineers – Obama District project to build Navigation Structure Database and according solution. It includes providing GIS database upgrades, and creating GIS data layers. Responsibility is to build a single geodatabase application by analyzing, indexing and linking various kind of source documents:

- Scanned Drawings and Scanned Field Construction Documents
- Shapefiles for Dikes, Levees, Bends, Monuments, etc.
- Personal Geodatabase including 30+ Feature Classes
- Various Excel Files and Forms Data
- Microstation DGN files
- 0701 construction .pdfs and Aerial Imagery

Analyzing the workflow and writing scripts in JavaScript REST API and open source technologies to perform various geospatial tasks for PublicBuddy. It will encompass various widgets such as, overlay map layers, dynamic legends customization, print maps, spatial and attribute query, data exports in JSON, XML and CSV formats, graphical presentation, info tips having text, images, videos, audio, etc.

Developed web-based mapping application for State of Connecticut Department of Energy and Environmental Protection, utilizing Esri ArcGIS for JavaScript API, HTML, Dojo, CSS, JSON, Web Services, etc. for Inland Fishing Tournament / Derby Permit (IFD), Marine Fish Tournament Registration (MFD), Marine Event Permit (MEP), Special Regulations on Association Controlled Waters (SPREG), Private Waters Registration (PWR), Importation, and Liberation Permit for Fish and/or Eggs (IMPLIB).

Performed mapping and data analysis tasks along with usage of published map services in ArcGIS Server. Created JSON objects from data points and develop nested JSON objects for polygon features. Utilized multiple Esri and open source technologies to provide daily activities as GIS Programmer Analyst. Worked with a GIS developer to edit and maintain geospatial information which is collected from a mobile app. Practiced ArcGIS Data Interoperability extension to transform and clean GIS data from CAD drawings. Run Spatial Quires to determine errors in GIS system and implementing corrections for errors.

Mohamed Fkili

GIS Programmer Analyst

Position	GIS Programmer Analyst
Years of Experience	4
Education	Bachelors of Engineering, Computer Science Higher Institute of Computer Sciences and Telecommunication 2011
Tools & Technologies	HTML 5, CSS, JavaScript, ExtJS, JQuery, DOJO, Sencha Touch, Python, C#, Bootstrap, PHP, and PostgreSQL Django framework and object relational mapper (ORM), JSON Esri ArcGIS Server 10.2.2, ArcGIS Desktop, Add-Ins, Extensions, COGO, ArcGIS REST APIs (JavaScript), ArcSDE, ArcObjects, Spatial Analyst Microsoft Office 365 including Word, Excel, PowerPoint and Access, Adobe Photoshop CMake, Qt/PyQt, Django, QGIS, OSGeo, GDal/OSG, Zope/Plone, Android SDK, APACHE, JQuery, AJAX, SVN, GIT, CVS TCP/IP, VPN (Virtual Privacy Network), Firewall/Proxy, IpCop, SmeServer, Squid proxy, Dansguardian web filter, Privoxy, OpenVpn MySQL, ORACLE, PostgreSQL, Microsoft SQL Server

Mohamed Fkili has over 4 years of GIS Software development and analysis experience. He is currently developing GIS Application for Electric Transmission Lines utilizing Esri ArcGIS Server 10.2.2, ArcGIS API for JavaScript, Sencha Touch, ExtJS, HTML 5, CSS, ArcSDE, Microsoft SQL Server 2012, Geo-Processing Services, Map Services, REST Web Services, etc.

Mohamed has worked on Hydrologic and Transportation Network Interactive Mapping Tool. Utilized ArcGIS API for Flex, and web-services in C#, and for Desktop tool utilized Python 2.7, Tortoise SVN, Cygwin, Cmake. Develop a Python plugin based on the QGIS API to customize QGIS GUI and manage National Hydrological Dataset (NHD), National Atlas Florida Land Use Land Cover, and implement calculations based on equations and report outcomes. Other tasks involved utilizing Python, PyQt, Spatial database data collection, QGIS, Reportlab, Data analysis and SQL, documentation and Data entry.

Mohamed was responsible to develop GPS server programs that provide data parsing, data storage and management of communication between GPS equipment and the server. He utilized Eric Python Editor, SSH, FTP, PGAdmin, WebAdmin, Python 2.5. Linux, TCP/IP, Spatial database, data collection, Postgresql, Postgis, SQL. He also simulated a system to remotely control a water pump. Design and implement a user interface as a dashboard and another to show the pump simulation. Implement the network communication protocol and data storage.

Mohamed developed mobile application service to track mobile devices; collect GPS positions, send data over network. He used Eclipse IDE, Android SDK, J2ME SDK for Symbian. Executed test cases in RQM (Rational Quality Manager). Involved in Smoke, Pass and regression testing of the Application. Reviewed the Requirements Specifications, SRD, BRD created Master test plan, Test Schedules according to the project deadlines. Prepared test strategy and test plans and end to end scenarios. Prepared test plan and test strategy documents from functional requirements. Involved in Usability testing, User Interface testing, compatibility testing. Report status to project stakeholders, resolve issues and manage expectations. Tested manually all major functionalities, Screens Layouts, Interfaces, Reports and Transactions. Identified defects, documented and tracked them to closure. Participated in test execution, issue identification, review and resolution process during QA phase. Tested End to End functionality of GIS and AutoCAD 2012.

Sakshi Sharma

QA/QC Analyst

Position
QA/QC Analyst

Years of Experience
5

Education
Bachelor of Science,
Computer Science
University of Illinois
2013

Tools
Quality Center, QTP 8, Cognos 8.2, MS Office, MS-Visio & MS-Project, Ultra Edit, Adobe Photoshop, FTP, AquaData Studio, Putty, Beyond Compare, SoupUI, SharePoint

Database
MySQL, Microsoft SQL Server,
ORACLE & MS-Access

Environments
Android, iOS, Windows & UNIX

Browser
IE, Firefox, Chrome and Safari

Sakshi Sharma has 5 years of experience in software industry especially in Software Testing with Good experience working in Agile and Waterfall methodologies. She has extensive experience in testing Web based Client server and Desktop applications, web testing, GUI testing, Cross-browser testing. She brings in-depth knowledge in implementing Test Driven Development approach for web based projects and windows Applications. She is continuously improving quality assurance methodology including creating and maintaining practical test environments, production monitoring, and evangelizing on quality, risk assessment, and customer success factors, Business Requirements Analysis, System Specifications Analysis, User Interfaces design.

Sakshi creates test strategies, test plans, positive and negative test cases using testing tools. She has Experienced in manual testing for both front-end and backend. She is good in requirement gathering of different phases of Test effort like Pre testing, Acceptance testing and testing phase. She has strong database skills that include building/maintaining tables and indexes, building/maintaining SQL, PL/SQL scripts, Stored Procedures, Triggers and Functions. She has strong analytical, dynamic trouble-shooting and requirement traceability skills.

Work Portfolio

Performed System Integration testing, Functional Testing and Regression testing for various releases of the application. Responsible for Identifying test cases for regression, prioritizing them and guiding the team in testing. Involved in Gathering requirements from Business and Preparation of Test Scenarios and Test Cases. Individually handled and executed Tower Data Sheet (TDS) and Tubular Steel Pole (TSP) interface for GIS. Logged defects and tracked them using Rational Clear Quest bug tracking tool and coordinated with the development and business teams to resolve the issues/defects. Retested and reviewed and track defects with associated artifacts in Clear Quest with each release of patch. Tested various SLDS in Auto CAD 3D and GIS web viewer and involved in Google Earth Pro Testing. Involved Preparation of Traceability Matrix and mapping the Test Cases with the requirements and Test Metrics. Responsible for creating test suits.

Executed test cases in RQM (Rational Quality Manager). Involved in Smoke, Pass and regression testing of the Application. Reviewed the Requirements Specifications, SRD, BRD created Master test plan, Test Schedules according to the project deadlines. Prepared test strategy and test plans and end to end scenarios. Prepared test plan and test strategy documents from functional requirements. Involved in Usability testing, User Interface testing, compatibility testing. Report status to project stakeholders, resolve issues and manage expectations. Tested manually all major functionalities, Screens Layouts, Interfaces, Reports and Transactions. Identified defects, documented and tracked them to closure. Participated in test execution, issue identification, review and resolution process during QA phase. Tested End to End functionality of GIS and AutoCAD 2012.

Meghana Choudhary

GIS Technician

Position

GIS Technician

Years of Experience

5

Education

Master of Arts, Geography
Western Michigan University

Bachelor of Arts, Geography
Grand Valley State University

Meghana Choudhary is a GIS Specialist at and is responsible for data management and creation in ESRI's ArcGIS (Environmental Systems Research Institute). She helps to maintain, organize, and manipulate geospatial data. She also aids in cartography and helps produce maps that can be used by clients and the public to help them better visualize projects.

Currently she is responsible for interpreting maps, survey documents, and sketches for company engineers. She provides onsite GIS support including data quality control and assurance, converting data between CAD and GIS formats, and designing maps for clients. She has experience manipulating coordinate systems along with knowledge of how to link spatial and attribute data so that it can be easily queried by users. She continually works to expand her knowledge of GIS and keep up to date on the ever changing technology that provides the foundation of computer based systems like GIS.

She has a background in GIS that includes teaching and proctoring lab for students learning GIS, providing GIS consulting work to Michigan State University scientists studying potato production, and using GIS to analyze arctic ecosystems for Michigan Tech Research Institute. Her background includes several advanced courses in GIS and cartography both during her undergraduate and graduate studies. These courses include Advanced GIS and Remote Sensing, Surveying, and City and Urban Planning.

She believes that maps are valuable tools that can be used to aid in our understanding of the world around us. Map products and GIS analysis has allowed researchers, scientists, and engineers to visualize the world as they never have before.

Projects

- Using GIS to map Plant and Soil Biodiversity in Potato Crops, East Lansing Michigan
- Peatland Soil Moisture Measuring and Monitoring, Edmonton Alberta
- Monitoring and Mapping Water Quality, Muskegon Michigan
- West Michigan Bike Trail Mapping, West Michigan Trails and Greenways Association-Fredrick Meijer Foundation

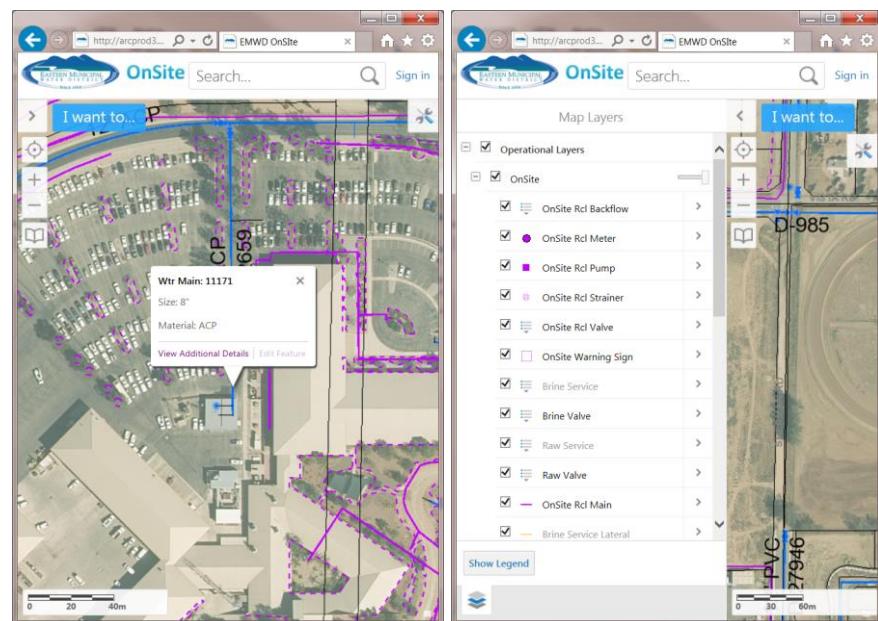
Relevant GIS Experience

Client Name:	Eastern Municipal Water District (EMWD), Perris, California
Project Name:	As-Needed GIS Services and GIS Mobile Application Development
Contact Person:	Keith Bratisax, GIS Manager
Contact Phone:	517-279-6933
Email:	bratisaxk@emwd.org
Dates of Service	November 2014 – Present [Contracted till Nov'2016]

Superior IT is selected by Eastern Municipal Water District in California through a competitive process to provide professional GIS services for two years. Our scope includes a full range of GIS support services for the District's GIS needs as following:

- Conduct stakeholder's interviews, workshops and documents user's requirements.
- Manage projects to perform enterprise upgrades to new versions of GIS, including interfaces through the FME software to the ESRI GIS.
- Develop and upgrade EMWD custom software applications which include mapping/data conversion tools, export scripts, import tools, QA/QC tools.
- Install and configure Geocortex Essentials products.
- Develop custom viewers and user tools for accessing GIS data.
- Support EMWD staff in system maintenance, bug fixes, and problem resolution.
- Assist EMWD in the evaluation of new products, procedures for maintenance of GIS data.
- Provide user training and develop user manuals for new GIS versions and tools.
- Assist EMWD in resolving hardware issues and in recommending and installing and configuring new hardware for the GIS.

Superior IT has already designed, developed and deployed the Hybrid Mobile App for Eastern Municipal Water District (EMWD) which works on iOS and Android based smart devices along with leading web-browsers. This application is developed utilizing Geocortex Essentials 4.0, Geocortex Viewer for HTML5 2.0 in Esri's ArcGIS Server environment. This application outfits various features and functionalities, such as Identify (tap/click event) on the map feature displays a callout with respective attributes information from the respective map layer.

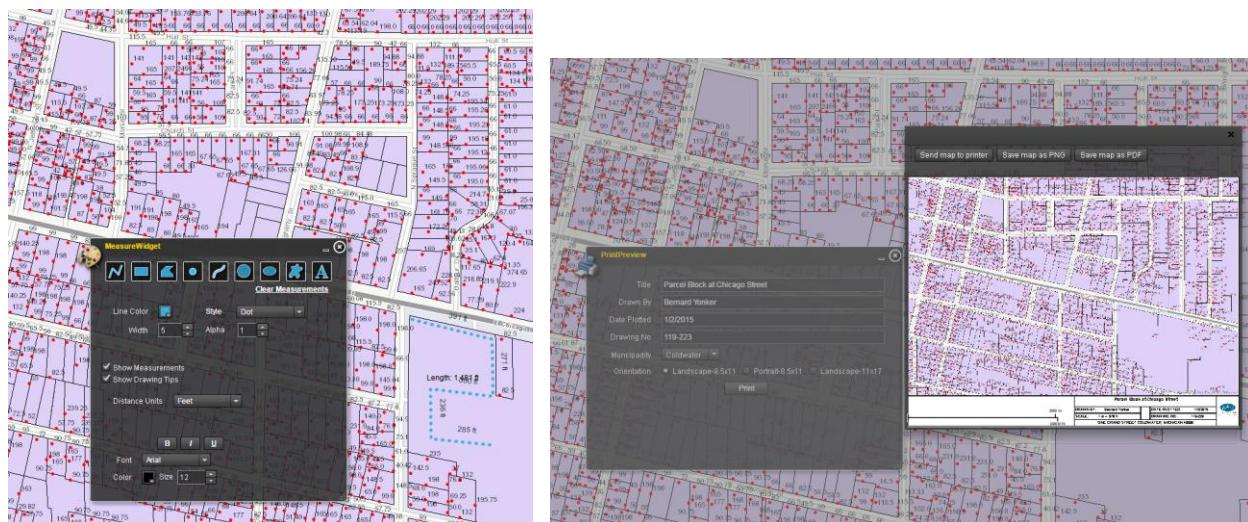


Client Name:	City of Coldwater, Michigan
Project Name:	Web Flex Viewer Mapping Application on ArcGIS Server 10.2.2
Contact Person:	Chad Burke, GIS Manager
Contact Phone:	517-279-6933
Email:	cburke@coldwater.org
Dates of Service	November 2014 - Present

Superior IT is developing advanced and custom widgets for ArcGIS Flex Viewer 3.6 utilizing REST API for Flex. This project involves many widgets but few specific functionalities are as below:

Measurement and Draw widget provides have more interactive measurements than the standard draw tool provides. With this widget, user will be able to complete the drawing of a line or polygon and a result will be returned from a geometry service. User will know the length of the vertex as they were drawing the line or polygon. This widget will allow the user to see the length of each line-segment. User will be able to draw multiple geometries on the map and change the units of measurements along with styling changes.

Print Widget provides the user an ability to print directly to printer or create PDF of the map in GIS Application. The print widget will allow the user to enter a title, subtitle, date, and specify if optional legend, scale bar, and north arrow has to be included on the map. The legend will display symbols and descriptions for layers that are turned on. There will be a default setting for all options. The map will be WYSIWYG (what you see is what you get) i.e. the layers displayed (turned on) in the viewer will be presented in the print copy map. User will be able to select the municipality's name (City of Coldwater, Union City, Quincy, and Bronson) from a dropdown value and according municipality's logo will appear on map's print layout.

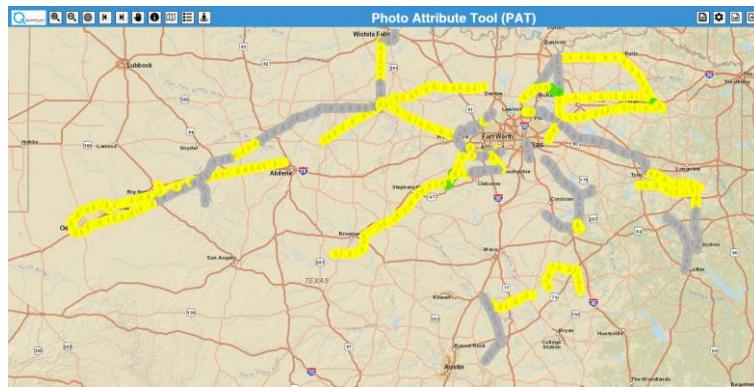


Client Name:	Quantum Spatial
Project Name:	PAT and NRIT GIS Applications for Electric Transmission Lines
Contact Person:	Vijay Alagarraj, GIS Program Lead
Contact Phone:	770-564-9843
Email:	valagarraj@quantumspatial.com
Dates of Service	December 2014 – February 2015

Superior IT team is designing and developing two GIS applications to support existing GIS systems. One application (NRIT) is being developed using ArcGIS for Flex API and other application (PAT) is being developed using ArcGIS for JavaScript API. These applications' technology stack utilize Esri ArcGIS Server 10.2.2, ArcSDE, ArcGIS Desktop Advanced, Spatial Analyst, Microsoft SQL Server 2012, Geo-Processing Services, Map Services, WCF based REST Web Services, HTML 5, Bootstrap, Sencha ExtJS, CSS, JavaScript, etc. Superior It is developing web services in WCF and C#, map feature services and geo-processing services in ArcGIS Server, and maintaining all data in SQL Server. All solution is built using MVC (Model View Controller) architecture and JavaScript based frameworks for Client side application (Sencha ExtJS 4.2, ArcGIS REST API for JavaScript, Bootstrap, DOJO, etc.)

The objective of the feature extraction (attribution) process is to populate the geodatabase as efficiently and accurately as possible. This tool will display each structure photo and the 13 attributes required in a form. Each attribute will have radio buttons or some other efficient method of selecting attributes. The technician will use hot keys to populate each attribute with the correct selection. As attributes are recorded, the technician will go to the next photo. At this point, the attribute selections will be saved to the geodatabase and sent to a reviewer for QA/QC. Should the technician be unable to identify an attribute, the tool will contain a button to elevate the photograph to a senior expert, who will then make a judgment call or flag for additional research. The tool will also provide summary reports on an individual rate of production and quality metrics to enable effective project management.

Photo Attribute Tool (PAT) works in all web browsers and mobile devices. PAT application has the following features: 1) User Authentication; 2) Map Navigation (Custom: Zoom-In, Zoom-Out, Default Extent, Previous Extent, Next Extent, Pan); 3) Identify Features; 4) Select Basemaps; 5) Dynamic Legend; 6) TriView Integration; 7) Photo Attribute Editor which can un-dock/dock the photo panel which can load low-resolution or high-resolution images, along with mouse-wheel controlled image zoom-in/zoom-out functionality; 8) Control Panel where administrator can perform following actions(Create/Modify user with different user-types, Assign job to users); 9) Custom and pre-defined reports.

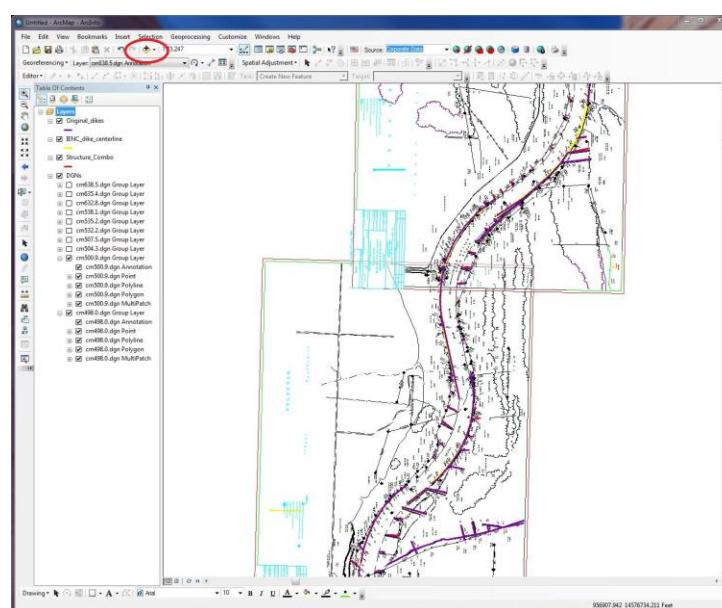
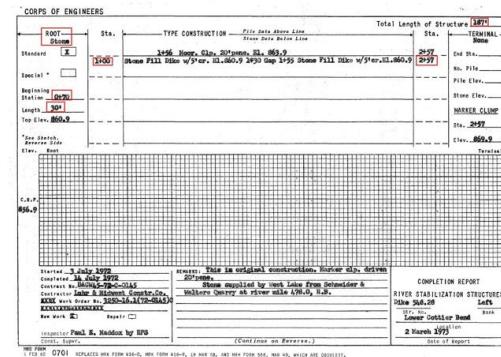


Client Name:	U.S. Army Corps of Engineers – Omaha District
Project Name:	Editing Navigation Structure Database and Application
Contact Person:	Eric Morrison, EGIS Coordinator
Contact Phone:	402-995-2280
Email:	eric.j.morrison@usace.army.mil
Dates of Service	October 2014 - Present

The mission of the U.S. Army Corps of Engineers (USACE) Omaha District involves Civil, Military and Environmental Projects. GIS is a tool to facilitate the USACE missions in a cost effective and intelligent manner. Superior IT is awarded 5 years BPA (Blanket Purchase Award) in May 2014 from USACE to provide its GIS and IT Expertise on its various projects. Our first and current task includes providing GIS database upgrades, and creating GIS data layers. The Omaha District maintains four navigation structure datasets for tracking structures. We are heavily utilizing COGO tools and Geospatial Features Editing in this project.

Our responsibility is to build a single geodatabase application by analyzing, indexing and linking various kind of source documents (total size of data is 10.8 GB):

- Scanned Drawings and Scanned Field Construction Documents
- Shapefiles for Dikes, Levees, Bends, Monuments, etc.
- Personal Geodatabase including 30+ Feature Classes
- Various Excel Files and Forms Data
- MicroStation DGN files
- 0701 construction .pdfs and Aerial Imagery (MrSID and GeoTIFF)

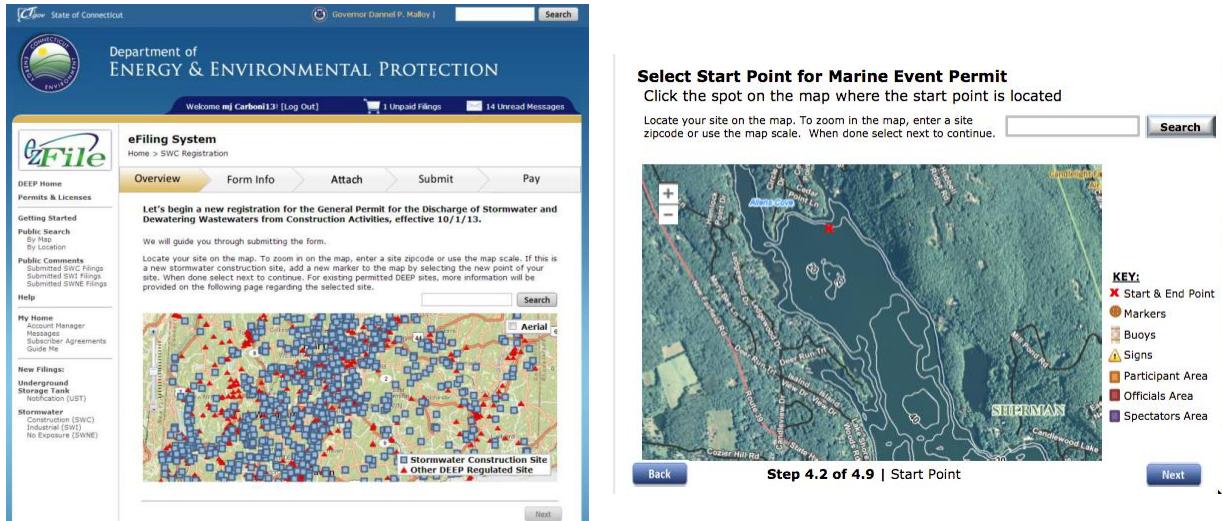


Client Name:	Fairfax Data Systems, Connecticut [End Client: State of Connecticut]
Project Name:	DEEP eFTD Application
Contact Person:	Beth Falder, CSSBB - Project Manager
Contact Phone:	860-354-4472
Email:	bethfalder@fairfaxdatasystems.com
Dates of Service:	December 2013 – April 2014

The Commissioner of the Department of Energy and Environmental Protection (DEEP) at State of Connecticut carries out the statutory responsibilities established by the legislature by regulating activities that may impact the state's natural resources and environment. A primary means of regulating these activities is through the issuance of permits that control the activity in a manner that is protective of the environment.

Superior IT's GIS personnel are managing and developing web based geospatial application for Inland Fishing Tournament / Derby Permit (IFD), Marine Fish Tournament Registration (MFD), Marine Event Permit (MEP), Special Regulations on Association Controlled Waters (SPREG), Private Waters Registration (PWR), Importation, and Liberation Permit for Fish and/or Eggs (IMPLIB).

This web based GIS application will work on all leading web browsers and mobile devices. The application is being developed utilizing ArcGIS REST API for JavaScript, ArcGIS Server 10.2, ArcSDE, DOJO 1.8, MS SQL Server 2012, HTML, CSS, JavaScript, COGO workflows, etc. The GIS application will also interface with other web applications written in ASP.NET and IBM Forms Designer.



The screenshot displays two web pages from the DEEP eFiling System. The left page shows a map of a coastal area with numerous blue and red markers. A legend on the left identifies symbols for DEEP Home, Permits & Licenses, Getting Started, Public Search, By Zip, By Location, Public Comments, Submitted SWC Filings, Submitted SWNE Filings, Help, My Home, Account Manager, Help, Subscriber Agreements, Guide Me, New Filings: Underground Storage Tank (UST), Stormwater Construction (SWC), Industrial (SWI), No Exposure (SWNE), and Stormwater Construction Site, Other DEEP Regulated Site. The right page is titled "Select Start Point for Marine Event Permit" and instructs users to click on a spot on the map where the start point is located. It includes a search bar and a key for symbols: Start & End Point (red X), Markers (orange circle), Buoys (yellow diamond), Signs (yellow triangle), Participant Area (orange square), Officials Area (red square), and Spectators Area (purple square). The map shows various water bodies and land parcels. Buttons for "Back" and "Next" are visible at the bottom.

Client Name:	Altarum Institute, MI [End Client: Dept of VA, Washington D.C.]
Project Name:	NCVAS GIS Application
Contact Person:	James C. Laramie, Deputy Director, HCA
Contact Phone:	734-302-4634
Email:	Jim.Laramie@altarum.org
Dates of Service:	May 2011 - August 2012

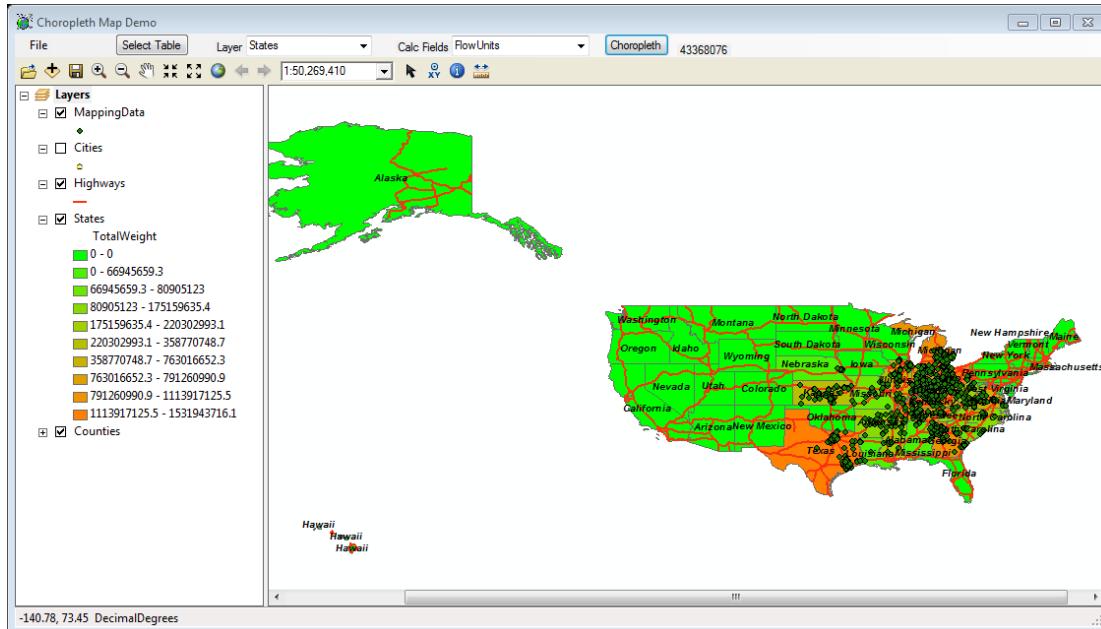
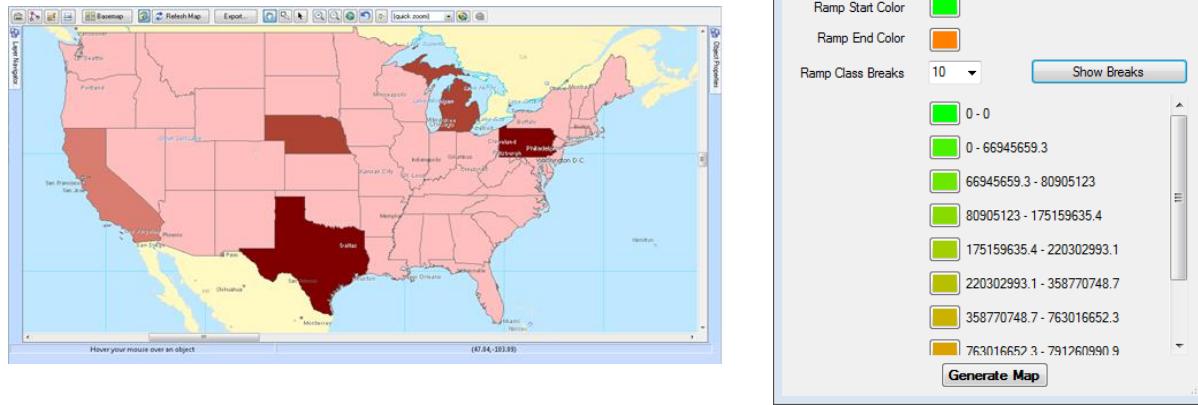
Superior IT developed Rich Internet Application for mapping needs of National Center for Veterans Analysis and Statistics (NCVAS), utilizing Esri ArcGIS Server Representational State Transfer (REST) Application Programming Interface (API) for Adobe Flex, ArcSDE, MS SQL Server, File Geodatabase, Web Services, etc. The web based mapping application provides the following sets of tools/widgets:

- Selector (Geography and Display) – more than 3000 cross products/selections
- Navigate Map (Zoom-In, Zoom-Out, Pan, Previous/Next/Default Extent)
- Overlays (more than 150 group and sub map layers)
- Base Maps (Google Maps Grey Scale, Streets, US Topo, Imagery, or NONE)
- Bookmarks (Public and Personal)
- Print Map (3 paper Sizes with all selected features' legends, custom themes)
- Full Screen, Map Tips, Profile (Statistics, Charts, Graphs)
- Labeling on Map Features, Attribute/Spatial Query and Data Export
- Dynamic Legends (Change class breaks and colors for thematic mapping)
- Dynamic Thematic Maps, TimeSlider, Compare Maps



Client Name:	LLamasoft, Michigan
Project Name:	Choropleth, Service Area Map and Distance (OD) Matrix Project
Contact Person:	Simon McCluskey, Vice President
Contact Phone:	734-418-3119
Email:	simon.mccluskey@llamasoft.com
Dates of Service:	December 2012 – February 2013

Superior IT developed windows based GIS application that demonstrates how to effectively display a service area map using the Esri ArcObjects, ArcEngine runtime, C#, Web Services, etc. This software generates and displays Network Services Layer showing the requested service areas for each point. It supports multiple layers that represent networks such as road or rail, which could be a shape layer file set (.shp, .dbf etc.), a feature layer that might be a sub-layer of a group layer contained in either a layer file (.lyr) or map document file (.mxd). This software generates a distance matrix and stores the matrix in a database table. Each row in this table contains source, destination and distance columns.

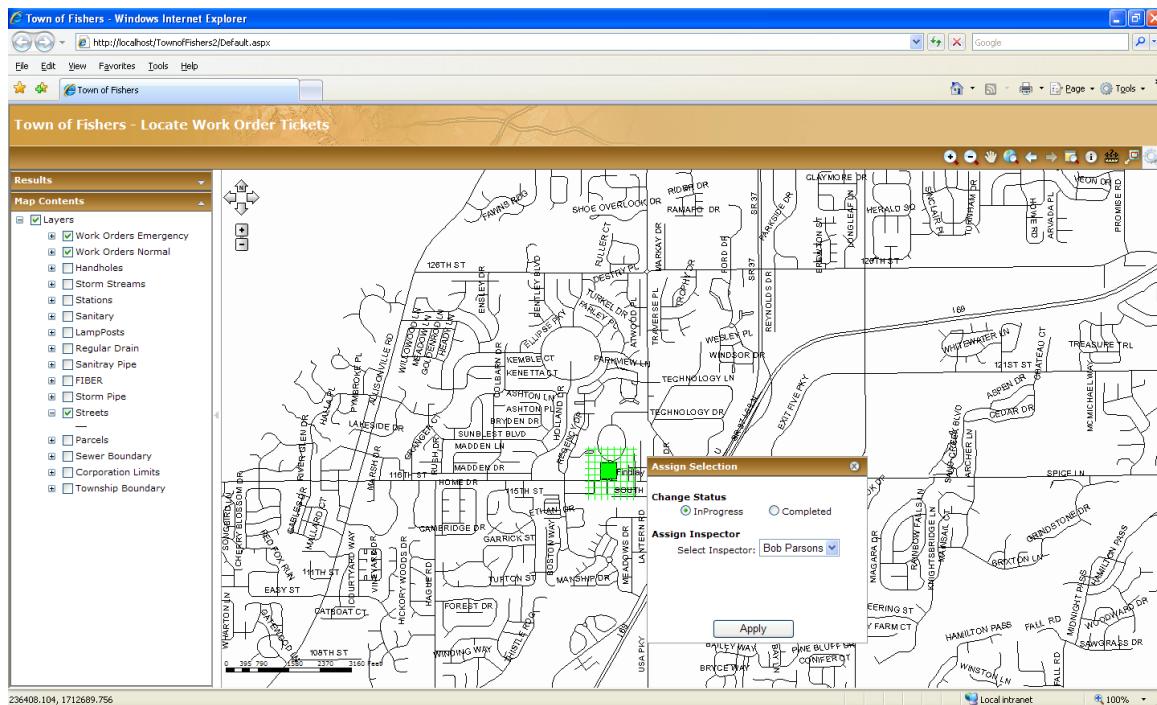


Client Name:	Town of Fishers, Indiana
Project Name:	Locate Work Order GIS Solution
Contact Person:	Thane Morgan, Director of Information Technology
Contact Phone:	317-595-3114
Email:	morgant@fishers.in.us
Dates of Service:	December 2011 – March 2012

PROJECT EXPERIENCE

Superior Information Technologies (Superior IT) developed state-of-the-art GIS solution for Town of Fishers in Indiana. This Locate Work Order GIS Solution encompasses a Windows Service, Web Service, Management Console and web-based GIS application. Web Service resides on the server machine and automatically senses the new IUPPS locate ticket email and parses its data and geocodes the address and create a point feature with the respective information. Management Console is a desktop-based application which can start/stop email-reader service, configures all authentication settings for email-server, ArcGIS Server and database, and facilitates the administrative features, such as reporting and create/modify/delete inspectors, etc.

The web-service resides on the client machines and it handshakes with the ArcGIS server and notifies the field user when new work-order point feature is created in the geodatabase. This notification navigates the field user to a web-based GIS application which allows the user to turn on/off relevant map data layers, change the status of tickets and provide the feedbacks. Superior IT is utilizing leading technologies for this solution's development, such as, ESRIs ArcGIS Server 9.3.1, ArcObjects, ArcSDE, ADF for .NET, web and windows services, MS SQL Server, etc.



Section 2: Proposed Approach

Project Approach for Scope of Work

Superior IT understands and acknowledges the Scope of Work which states the following in the solicitation document: The overall objective of this RFP is to acquire professional services to conduct a comprehensive Geographic Information System (GIS) needs assessment, develop a conceptual system design, and prepare an implementation plan for the County's enterprise GIS that will eventually help the County consolidate its mapping and GIS functions and allow for best of breed mapping standards to be utilized. Vendor will help the County to understand the value and best practices of implementing an enterprise GIS by:

- Identifying GIS business objectives and current business processes/workflows
- Determining the technology and system infrastructure readiness to meet GIS business objectives
- Determining GIS database readiness to meet the GIS business objectives
- Determining organizational readiness to meet the GIS business objectives
- Developing enterprise GIS Implementation Plan to meet the GIS business objectives

Superior IT's GIS Services approach employs brainstorming sessions, iteration and AGILE methodology practices to encourage the exchange of ideas, the presentation of recommendations to get feedback on a regular basis. We will assign a dedicated project manager who will conduct regular team meetings, monitor team progress against the work plan, log issues and problems, ensure that they get resolved, and provide a forum for sharing critical information.

Superior IT Team will provide a synthesis of various skill-sets in regards GIS Service to ensure that the final solution is aligned with the scope requirements and delivers an out-standing deliverable solution to San Mateo County. Superior IT Team will communicate and present project progress on a regular basis to client team through emails, teleconferences, web-based conferences and as-needed personal meetings. Our communications approach will focus on securing customer/stakeholder input, reviewing and confirming acceptance of major task deliverables before moving to the next project tasks, and sharing the status of development efforts and project decisions with respective stakeholders identified by the client.

Superior IT has worked with many clients where we have provided similar GIS services and solutions. We invest enough time in Project Management and Needs Assessment and Information Collection tasks when we are serving municipalities as there are many user-groups or municipal divisions who would be using or benefiting from the delivered GIS services, so it is very important to understand all stakeholders' needs and effects of new GIS driven workflows.

1 Project Planning, Management, Communications, and Coordination

Our comprehensive project management approach is based on PMBOK (Project Management Body of Knowledge) and promotes a smooth and effective execution of the project. This approach will be used to manage all tasks – resulting in the project success. Our project

management methodology guides the project manager to develop a comprehensive project work plan at the beginning of the project. It prescribes a rigorous management process to ensure that the plan is followed. The project management methodology provides an integrated framework for project planning, communication and execution. Our Project Management approach is a discipline of combining systems, techniques, and resources to complete the project within established goals of time, budget and quality.

Project work plan includes the work elements, resources, timelines, dependencies, milestones and critical paths. It will document the project schedule, and show the estimated effort, duration and completion date for each activity, and a target date for each milestone and deliverable. Superior IT Project Manager (PM) will actively monitor progress against the project work plan, so that problems are recognized early and steps are taken to resolve them and bring the project back on track.

Superior IT employs a chain-of-command with clear protocols for relaying team communications and management decisions in order to handle any potential problems. We believe that proactivity is key to avoiding potential problems and rapidly solving them when they do arise. Our team personnel are empowered to work directly with customers to take corrective actions and resolve issues. When issues cannot be resolved at this level, we have clear procedures for escalating issues to the next level of management.

Status reports, issues and resolutions, and matters of record flow through the management structure so that all personnel are properly informed of updates relevant to their tasks. Our project manager will ensure that each issue identified within the project environment is documented, prioritized and resolved within an appropriate timescale. Superior IT PM will develop Risk Management Plan to describe methods for identifying, analyzing, prioritizing, and tracking risk drivers; developing risk-handling plans; and planning for adequate resources to handle risk. Superior IT PM will also develop Risk Management Plan which will describe methods for identifying, analyzing, prioritizing, and tracking risk drivers; developing risk-handling plans; and planning for adequate resources to handle risk.

Superior IT PM will implement Cost Management Plan to make the cost estimating process faster by specifying how estimates should be stated and to what level of WBS (Work Breakdown Structure) estimates will be made. During direct and manage project execution phase, the cost management plan will assist in determining whether a variance is over allowed threshold and therefore must be acted upon. Superior IT PM will perform Value Analysis on each activity along with bottom-up cost calculations.

Superior IT PM will employ the Earned Value (EV) technique to measure project performance against the project baseline, as its results will indicate potential deviation of the project from cost and schedule baselines. Superior IT PM will calculate the EV elements on project activities throughout the project lifecycle and apply corrective actions to manage Cost Performance Index. Earned Value technique is an effective tool for measuring performance and determining the need to take corrective actions.

② Needs Assessment and Information Collection

This task determines the detailed feature and functional requirements for the GIS Services and according functionalities. Superior IT Team will analyze and review existing infrastructure, GIS solutions, current business practices and corresponding data. Superior IT team will prepare the detailed feature and functional specifications, which includes the use-cases and workflow-diagrams to clarify the functionalities to all stakeholders. Our team of Project Manager, Business Analyst, Subject Matter Expert, Technical Architect conducts brainstorming sessions to fully evaluate the feature and functional requirements for the successful delivery of the GIS Services.

Superior IT team will gather specific GIS requirements/needs from the user's perspective by conducting one or more interviews with the following departments:

- Public Works
- Clerk, Assessor, Recorder, Elections (CARE)
- Planning and Building
- Health System
- Information Services Department (ISD)
- Sheriff
- Probation
- Human Services Agency
- Parks
- Housing
- Public Safety Communications
- Potential GIS Users (Controller, HR, LAFCo, CMO)

This task evaluates and determines the following components:

- County's Enterprise GIS business needs and business objectives
- Current business processes/workflows
- Identify all the information products that can be reasonably foreseen at present state
- Identify potential applications, necessary data, and required resources
- Business Workflow Processes, challenges, and expected outcomes
- Identify the gap between current business processes and future needs
- GIS Functional and Non-Functional Requirements
- Hosting Environment and Infrastructure
- User/Application Authentication
- Data Needs and Security
- Integration to Existing Applications/Documents
- Tools and Functionality Set
- Existing Software, Practices and Data
- Current and Future Requirements
- Internal and External Users
- User Interface and Branding Requirements

- Data Visualization, Exports and Reporting
- Data Dictionary and Tools Catalog
- Information, standards, procedures, applications and media currently used
- Categorization of all existing information requiring conversion
- Preliminary assessment of the methodology for the conversion
- Georeferencing requirements for the scanned map/document/image
- Data Transformation (Conversion) and Interoperability
- Strategy for addressing immediate, short-term, and long-term requirements
- Information product description (IPD), together with details of the input data (the master input data list or MIDL)

This task involves the client interviews and fact-finding interactions with the client team to document all the project requirements which will be measured in deliverables. This task generates a detailed requirements which will accommodate timely feedback by client team. This feedback may be in the form of questions, concerns, clarifications or WebEx/personal meetings.

Superior IT team will compile categorically the GIS needs/concerns of stakeholders and users. A collaborative Development Process that will gather input from all County departments and communities to deliver a shared vision for GIS development, implementation, and use.

Deliverable:

- Comprehensive Needs Assessment Report

③ Technology Readiness Assessment

Enterprise GIS is a managed set of spatial data, IS hardware, network communication links and software tools that enable the County's spatially referenced data to be managed so as to maximize efficiencies of storage and retrieval which in turn maximizes the availability of such data for employees, communities and citizens to use in their daily tasks. Along with spatial data the technology environment establishes the foundation on which the Enterprise GIS operates. A robust state-of-the-art IT environment must be established and actively managed to support the program. The purpose of this activity is to assess the current GIS IT environment and make enhancements necessary to support current needs.

Superior IT will achieve this by integrating technology with business practices with the intent of improving County's efficiency and effectiveness. Superior IT Team will assess business processes and evaluate the readiness of the system infrastructure (hardware, software, and network) to support enterprise GIS implementation. Superior IT Team will discuss all reasoning with the client team why particular workflows and practices are recommended. Superior IT Team will identify all logical workflows and define business practices to deal with the needed infrastructure, information and data, which will be utilized by GIS solution.

There will be emphasis on the following aspects during the detailed assessment in this task:

- | | | | |
|-----------------|-----------------|-------------------|-------------------|
| ● Compatibility | ● Extensibility | ● Fault-tolerance | ● Maintainability |
| ● Modularity | ● Reliability | ● Reusability | ● Robustness |
| ● Security | ● Usability | ● Performance | ● Scalability |



Superior IT will facilitate:

- A collaborative GIS development process
- Generate the GIS and data standards
- An open GIS and data management system
- A smooth transition to the new system
- Enhanced decision-making

Deliverable:

A report documenting:

- Technology readiness assessment
- Hardware, software and network configuration review
- Conceptual system design

4 Enterprise GIS Database Readiness Assessment

A GIS needs data in the same way a car needs gasoline. Data is the fuel that feeds all information systems, and GIS is certainly no exception. In a spatial data management system, “data” can mean many different kinds of information in many different formats. A high level of GIS data needs and according dependencies would be identified in Needs Assessment task prior to this task.

Superior IT team will assess the Enterprise GIS Database Readiness by analyzing:

- Set of critical information stores, databases, and data creation capabilities to support user needs
- How to handle data creation tasks that fall outside the realm of operational computing within departments
- Data maintenance requirements and their change frequencies
- Which data sets will be constantly evolving as circumstances change
- Graphic data sets will be tied to data that may be created (at least in part) within departments and outside the group responsible for the GIS Program
- Spatial database administration functions to support a unified set of rules and standards that have been (or must be) adopted across departmental boundaries

The GIS Program Management Group and IT should both be involved in creating effective standards and providing spatial database management support for data sets that must be made available to multiple departments to support reporting and other applications.

Superior IT team will perform the following tasks

- Assess and Catalog Existing Enterprise GIS Data Layers
- Create Database Standards for Each Enterprise GIS Data Layer
- Plans to create Enterprise GIS Database Design and Central Repository
- Plans to migrate Existing Data into Enterprise Database
- Data Collection and Conversion Procedures
- Data Quality Control Procedures
- Data Stewardship and Maintenance Responsibilities
- Identify data to be used
- Assess data sets to meet GIS data requirements
- Identify data preparation procedures

This database design will account the Feature/Functional Requirements collected in Needs Assessment task so that we design a scalable database for the solution, which is suitable for present and future requirements. Superior IT team will cogitate both components while considering the database design: logical and physical. Logical database design involves modeling business requirements and data using database components, such as tables and constraints, without regard for how or where the data is physically stored. Physical database design involves mapping the logical design onto physical media, taking advantage of the hardware and software features available, which allows the data to be physically accessed and maintained as quickly as possible, and indexing. Superior IT Team will consider the following key elements while designing the database specifications:

- The size of the database and how it affects the design
- Database normalization and denormalization practices
- Protection of data integrity
- Security requirements of the database and user permissions
- Performance needs of the application
- Geospatial requirements

Deliverable:

A report documenting:

1. Database Assessment
2. Conceptual Database Design

5 Organizational Readiness Assessment

The establishment of an enterprise GIS implies a paradigm shift to the use of spatially enabled data for the management and operations of the municipal functions. It implies a way of doing

business that is so much more than desktop/web-based software with maps. As a result, the County can improve its related systems and workflows to include asset management, inspections, land use planning, permitting, as well as all forms of engineering design, environmental analysis, routing, emergency management, and countless other municipal and utility functions.

Superior IT team will meet with key stakeholders throughout the County departments to better understand the current situation relating to the use and needs for GIS. Our team will also assess current status of readiness for involved stakeholders and what would be needed to make them ready for Enterprise GIS program going forward. While the adage “build it and they will come” may not be the right phrase, “we need it and we’ll use it” certainly may capture the expressed wishes of all involved stakeholders. Our team will meet with each group individually and discuss their history and or experience with GIS over the last 5 years.

Our team will help the County to develop governance plan that outlines the administration, maintenance, and support for the enterprise GIS. Our team will do separate evaluations of ISD readiness and department readiness to change current work processes and implement enterprise GIS. At minimum this task will focus on: Developing guidelines to ensure all organizational structures are in place to establish data ownership, accuracy and security

For ISD (Central GIS Team)

- Developing training plan to support the enterprise GIS implementation
- Identifying internal support procedure
- Developing data and application release procedures
- Producing development decision criteria
- Defining optimal staffing levels and skill sets required

For Departments

- Developing training plan to support the enterprise GIS implementation
- Identifying internal support procedure
- Developing data release procedures
- Defining optimal staffing levels and skill sets required

Deliverable:

A report documenting:

1. GIS Support Procedures and SLAs
2. Training Plan and Staffing Model for ISD and Departments (for business and technical users)
3. Governance Plan

Superior IT Team will define business processes related to data creation and its maintenance, which may involve spatial data, attribute data, scanned raster images, and external data links, etc. Superior IT Team will discuss all reasoning with the client team why particular workflows and

practices are recommended and make corrective changes as per the client's feedback. Superior IT will provide step-by-step guide how to properly index and tag the new or changed data, so that it maintain its referential integrity with all related corresponding data.

Superior IT Team will identify all logical workflows and define business practices to deal with the associated information and data, which will be utilized by GIS solution. There will be business process for database and data folders' automated backup methods, which can be validated against its recovery methods and seamless use in case of primary data source becomes unavailable. All events and steps will be registered in the database and log files so that system administrators are fully aware of the system's health and history.

6 Implementation Plan

Our Implementation plan will outline a GIS organization and governance model which would be best suited for the County. There is a need for a GIS Consortium which can be steered by the County, and managed the services to furnish GIS requirements and associated support. The GIS program will become the integral part of County's governance and core service provider to its department, communities and citizens.

Superior IT's plan will provide the basis to establish County's leadership in the use of GIS-based technology for its enterprise and communities. We will achieve this by integrating technology with business practices with the intent of improving County's efficiency and effectiveness. The plan will demonstrate how the use of latest GIS technology and tools can be used to provide easy access to reliable data and provide timely information access to support informed decisions resulting in improved customer service.

We are a vendor that can address the GIS needs/concerns of stakeholders and users. We have the Intellectual Property of how to solve for stakeholders needs since we have put the efforts to listen and think out of the box. Enterprise GIS Implementation Plan will be developed on real and practical needs of the County department, which would also take the consideration of current business process workflows. Most of the stakeholders would like to receive GIS and associated technical services as general public service from the County and these stakeholders will provide and update the information to the GIS program, so that GIS becomes more valuable and widely usable program in the favor of County's goals and visions.

The implementation plan will provide a clear roadmap of how the enterprise GIS system will be taken from the planning stage to actual implementation. At minimum this task will focus on:

- Documenting the results of each of the previous tasks
- Including a high level project timeline
- Including cost estimate of implement the enterprise GIS
- Including cost benefit analysis

- Recommending a migration strategy timeline for moving from the existing system to the new enterprise GIS
- Including the results of risk analysis that identifies any implementation difficulties beforehand.

Deliverable:

- Enterprise GIS Implementation Plan

7 Final Presentation

Superior IT team will make presentation demonstrating long-term GIS program benefits solutions for flexible and sustainable solutions for County's GIS needs. Our presentation will encompass practices such as Enhanced Decision Making procedures from getting the right information to the right people at the right time. It will showcase how a GIS system founded on the operational needs of "best enterprise GIS practices" combined with the technology achieves the goal of improving the delivery of high quality services to all stakeholders.

An Enterprise-wide Solution assures County that GIS tools support the work practices and meet the business goals of the County. Our GIS Implementation Program will provide an alignment of GIS tools and practices to deliver a true enterprise solution that will work for the County.

As a presentation process, we will discuss how an effective GIS governance strategy can bring the key stakeholders together with a common purpose to:

- Define the roles, responsibilities and interrelationships for GIS projects and initiatives
- Focus GIS investment and reinvestment needs
- Establish the policies to guide GIS technology and spatial data investments

Aspects of a GIS governance process will consider:

- Setting GIS investment strategies and funding allocations
- Determining IT infrastructure investments necessary to support the GIS program
- Providing guidelines for department-related decision making
- Policy setting and strategic planning for GIS technology and spatial data
- Defining enterprise spatial data access and maintenance responsibilities

The purpose of establishing a GIS governance strategy is to ensure that control of the direction and responsibility for the success of GIS across County is in the hands of the business managers and users of that technology. Clearly defined roles and responsibilities need to be established in terms of the GIS governance and operations and its role in both the business and IT environments across the County. At minimum this presentation will focus on:

- Executive summary
- Recommend an actual strategy that outlines the specific actions required to implement enterprise GIS

- List of actions and concerns
- Reflect on the previous planning

Deliverable:

- Executive summary
- A presentation with an opportunity for question and answer session.

Responsibility for Superior IT and County

Superior IT will need the office space and professional working environment for our professional staff when our employees come to county's office for according tasks. County should also dedicate its point of contact or manager who can provide the access to needed stakeholder or information during any phase of GIS project lifetime.

Superior IT will assign Mr. Anurag Kulshrestha as our Sr. Project Manager, certified PMP (Project Management Professional) and Subject Matter Expert who will be responsible for the management of all work under this contract. Mr. Kulshrestha will also be a client's Point of Contact (POC) and will oversee all efforts under the contract, including performing task order planning, managing work efforts, deliverable preparation, risk assessment and mitigation, quality assurance, cost control and resource allocation. Mr. Kulshrestha has 18 years of extensive industry experience along with multiple IT and GIS projects management. Mr. Kulshrestha will be responsible for communication and coordination with the client to ensure effective contract management and the successful execution and completion of tasks. Mr. Kulshrestha will be responsible for assigning task order appropriate technical expertise and resources to ensure that all task orders are executed and completed successfully with RFP specifications compliance.

Point of Contact (POC) Name	Mr. Anurag Kulshrestha
POC Phone Number	Work: 248-353-4090 Ext 107, Mobile: 248-425-8654
POC Fax Number	248-353-4093
POC Email Address	anurag@superiorinfotech.com

Superior IT will assess individual county's GIS needs and involve respective resources to provide the solution in timely manner to those needs. Our resources will travel to client site if resolution cannot be provided remotely, which could include following activities but not limited to:

- Needs Assessment Information Collection
- Stakeholders interviews and workshops
- GIS Planning and technology/procedures implementation consulting
- Amplify GIS expertise and ISD capabilities
- Promote authoritative data sources, such as site addresses and master patient/client index
- Simplify access and sharing of information products (maps, reports, apps)
- Empower County knowledge workers to create business focused information products
- Provide GIS governance structure
- Establish a GIS platform that can grow with the County's needs
- Apply industry best practices
- GIS Application Development
- Etc.

Work Location

Superior IT team will work from our Southfield, Michigan, USA office and will travel to client site and stay at client site as per the project requirements. All of our employees have valid work authorization in United States.

Address of our primary work location:

Superior Information Technologies, LLC.
26100 American Drive, Suite 602
Southfield, Michigan 48034
USA

We will actively communicate with client through WebEx meetings, emails, telephone conferences, video conferences, etc.



Section 3:

Claims and Violations against Organization

27 February, 2015

Jon Walton
San Mateo County CIO, Director Information Services Department
Redwood City, CA 94065

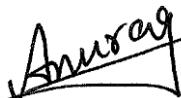
RE: Statement - Claims and Violations against Organization

Dear Jon,

Superior Information Technologies, LLC. (Superior IT) states that it has no current or past legal violation or claims against our organization. We never had any legal issue or lawsuit in our organization.

Please, don't hesitate to contact us with any questions or comments.

Sincerely,



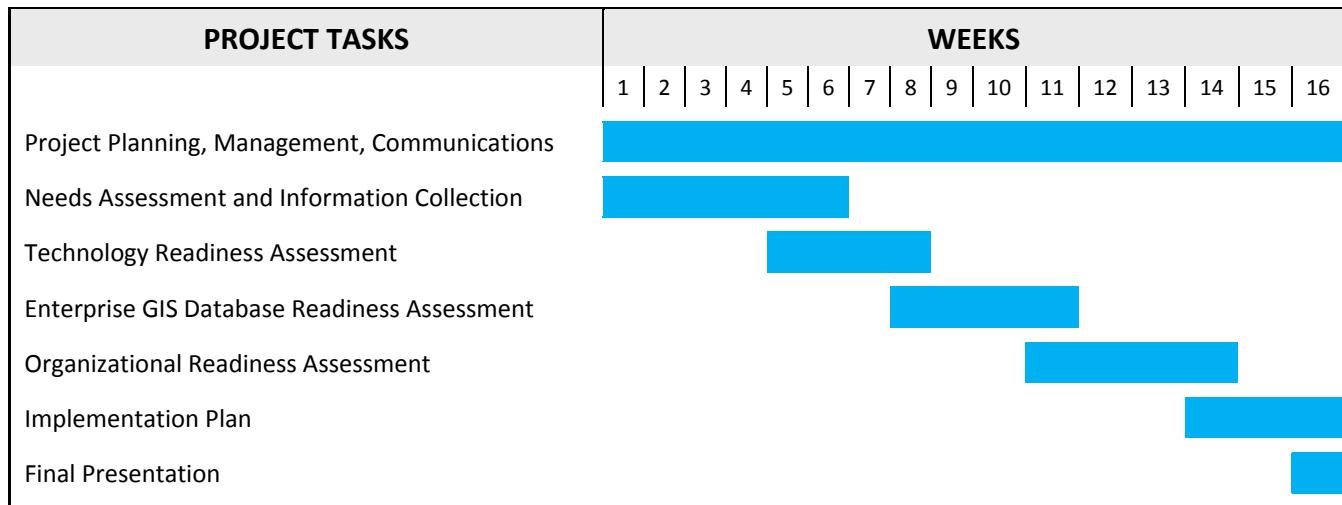
Anurag Kulshrestha
President & CEO
Superior Information Technologies, LLC.
26100 American Drive, Suite 602
Southfield, Michigan 48034
Phone: 248.353.4090 Ext. 107
Mobile: 248.425.8654
Fax: 248.353.4093
Email: anurag@superiorinfotech.com

Section 4:

Cost to the County for System and Implementation Services

Price Proposal

Project Cost by Superior Information Technologies, LLC. (Superior IT) includes the professional services and team effort from various resources. We estimate that our team can complete successful implementation, documentation and presentation of asked services in 16 weeks' timeframe since the official start date. There are task dependencies in our project task activities and our estimated cost is based on the complete project development as a single project unit. We will invoice monthly for the work and services performed in each month.



Here is the Project Tasks' unit costs breakdown:

PROJECT TASKS	Unit Cost
Project Planning, Management, Communications	\$17,400.00
Needs Assessment and Information Collection	\$26,400.00
Technology Readiness Assessment	\$20,150.00
Enterprise GIS Database Readiness Assessment	\$19,840.00
Organizational Readiness Assessment	\$20,800.00
Implementation Plan	\$20,000.00
Final Presentation	\$5,280.00
FIRM-FIXED PRICE QUOTE	\$129,870.00

Any service task which is not provided in solicitation document (as above mentioned tasks) or goes beyond the scope of work statement will be billed separately and our schedule of hourly rates is given on the next page.

Schedule of Personnel Rates

Position Titles and Hourly rates for each position:

Title of Position	Hourly Rates (2015)
GIS Project Manager	\$145/hr
GIS Technical Architect	\$132/hr
GIS Specialist	\$132/hr
Sr. GIS Developer	\$124/hr
GIS Programmer Analyst	\$110/hr
Sr. Software Developer	\$112/hr
Software Developer	\$105/hr
Sr. GIS Analyst	\$105/hr
GIS Analyst	\$98/hr
Jr. GIS Analyst	\$90/hr
GIS Technician	\$90/hr
GIS Subject Matter Expert	\$175/hr
GIS Database Engineer	\$110/hr
GIS QA/QC Analyst	\$90/hr
GIS Help Desk Specialist	\$85/hr

Section 5:

Cooperative Purchasing and Cost of Possible Additional Services

27 February, 2015

Jon Walton
San Mateo County CIO, Director Information Services Department
Redwood City, CA 94065

RE: Cooperative Purchasing and Cost of Possible Additional Services

Dear Jon,

Superior Information Technologies, LLC. (Superior IT) states that we will interested in extending the similar contract to other San Mateo County Cities and/or public agencies in the San Francisco Bay area upon their request (Yes).

Only foreseeable work we see beyond the current scope of work is GIS Application Design and Development for different operating platforms. And our Schedule of Personnel Rates lists our hourly rates which will be utilized in estimating the specific project cost depending upon the new additional scope of work.

Please, don't hesitate to contact us with any questions or comments.

Sincerely,



Anurag Kulshrestha
President & CEO
Superior Information Technologies, LLC.
26100 American Drive, Suite 602
Southfield, Michigan 48034
Phone: 248.353.4090 Ext. 107
Mobile: 248.425.8654
Fax: 248.353.4093
Email: anurag@superiorinfotech.com

Section 6:

References

Client References

Client Name:	Eastern Municipal Water District (EMWD), Perris, California
Contact Person:	Keith Bratisax, GIS Manager
Contact Phone:	517-279-6933
Email:	bratisaxk@emwd.org

Client Name:	City of Coldwater, Michigan
Contact Person:	Chad Burke, GIS Manager
Contact Phone:	517-279-6933
Email:	cburke@coldwater.org

Client Name:	Quantum Spatial, Georgia
Contact Person:	Vijay Alagarraj, GIS Program Lead
Contact Phone:	770-564-9843
Email:	valagarraj@quantumspatial.com

Client Name:	U.S. Army Corps of Engineers – Omaha District
Contact Person:	Eric Morrison, EGIS Coordinator
Contact Phone:	402-995-2280
Email:	eric.j.morrison@usace.army.mil

Client Name:	Fairfax Data Systems, Connecticut [End Client: State of Connecticut]
Contact Person:	Beth Falder, CSSBB - Project Manager
Contact Phone:	860-354-4472
Email:	bethfalder@fairfaxdatasystems.com

Client Name:	Altarum Institute, MI [End Client: Dept of VA, Washington D.C.]
Contact Person:	James C. Laramie, Deputy Director, HCA
Contact Phone:	734-302-4634
Email:	Jim.Laramie@altarum.org

Section 7:

Statement of Compliance with County Contractual Requirements

27 February, 2015

Jon Walton
San Mateo County CIO, Director Information Services Department
Redwood City, CA 94065

RE: Statement of Compliance with County Contractual Requirements

Dear Jon,

Superior Information Technologies, LLC. (Superior IT) states that we will comply and abide by with each of the terms of the County's standard contract, including but not limited to the following:

- The County non-discrimination policy;
- The County equal employment opportunity requirements;
- County requirements regarding employee benefits;
- The County jury duty ordinance;
- The hold harmless provision;
- County insurance requirements; and
- All other provisions of the standard contract.

In addition, Superior IT makes a statement that it will agree to have any disputes regarding any contract venued in San Mateo County or the Northern District of California.

Please, don't hesitate to contact us with any questions or comments.

Sincerely,



Anurag Kulshrestha
President & CEO
Superior Information Technologies, LLC.
26100 American Drive, Suite 602
Southfield, Michigan 48034
Phone: 248.353.4090 Ext. 107
Mobile: 248.425.8654
Fax: 248.353.4093
Email: anurag@superiorinfotech.com